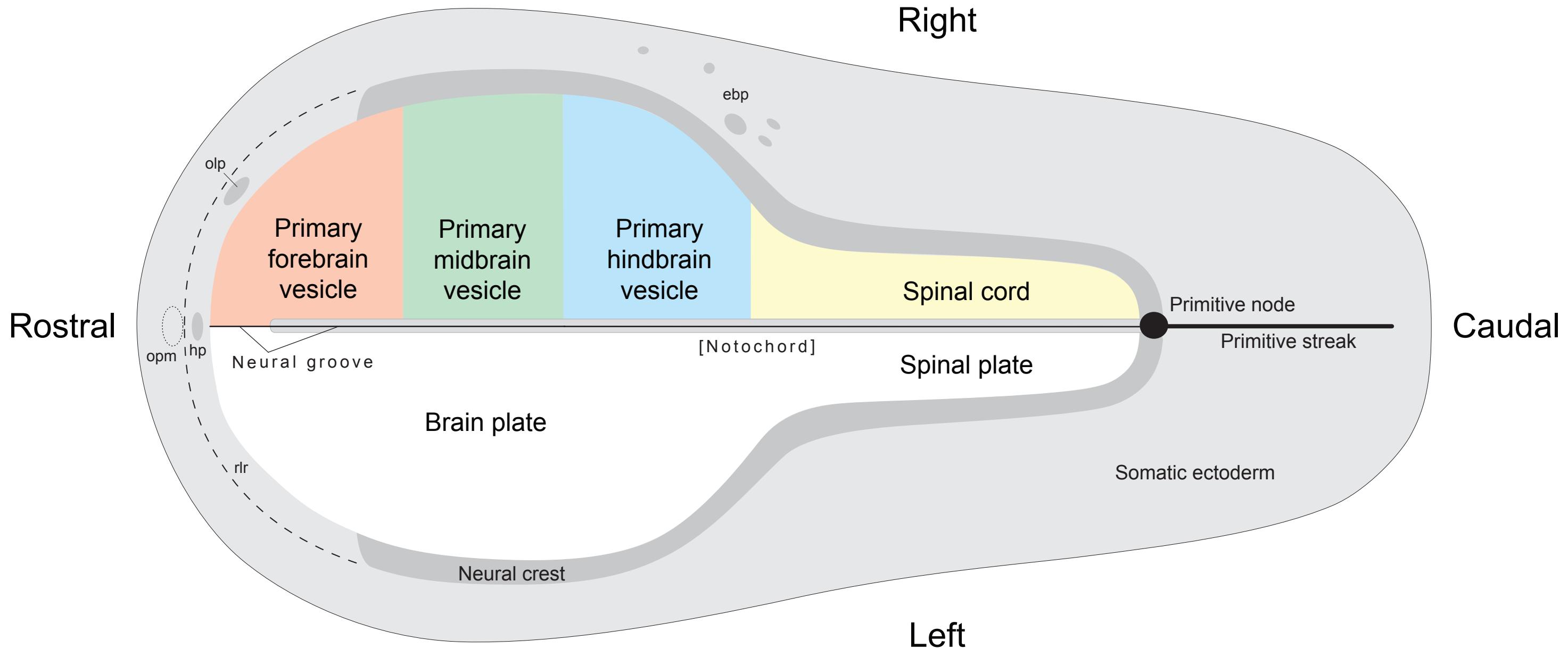


A flatmap atlas summarizing  
**Rat nervous system development**

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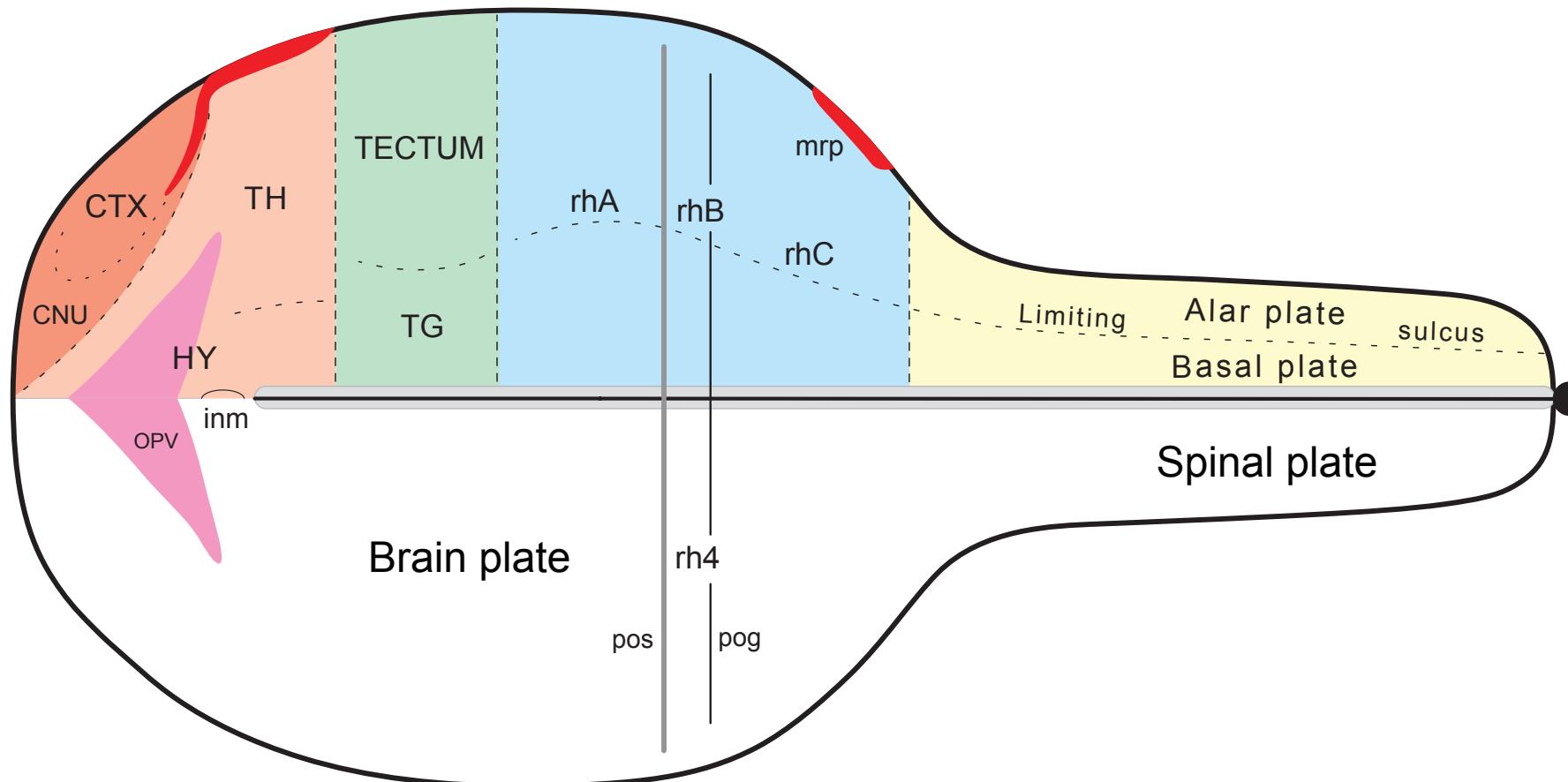
Larry W. Swanson: Brain Maps 4.0

FATE: e10 (early neural tube)



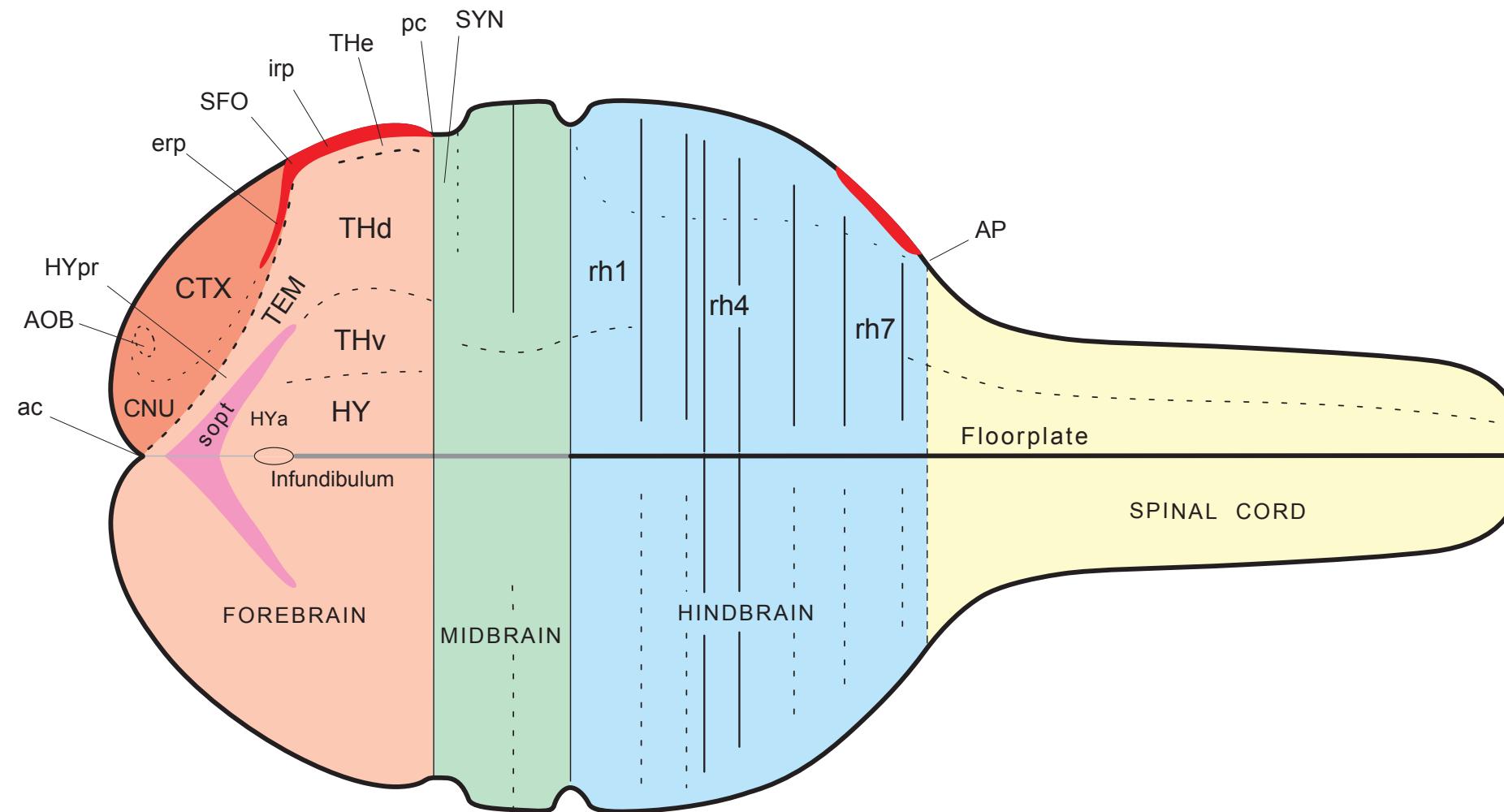
ACTUAL: e9 (early neural plate; 2-3 somites)

FATE: early e10 (three primary rhombomeres)  
e12 (endbrain split to cortex & nuclei)



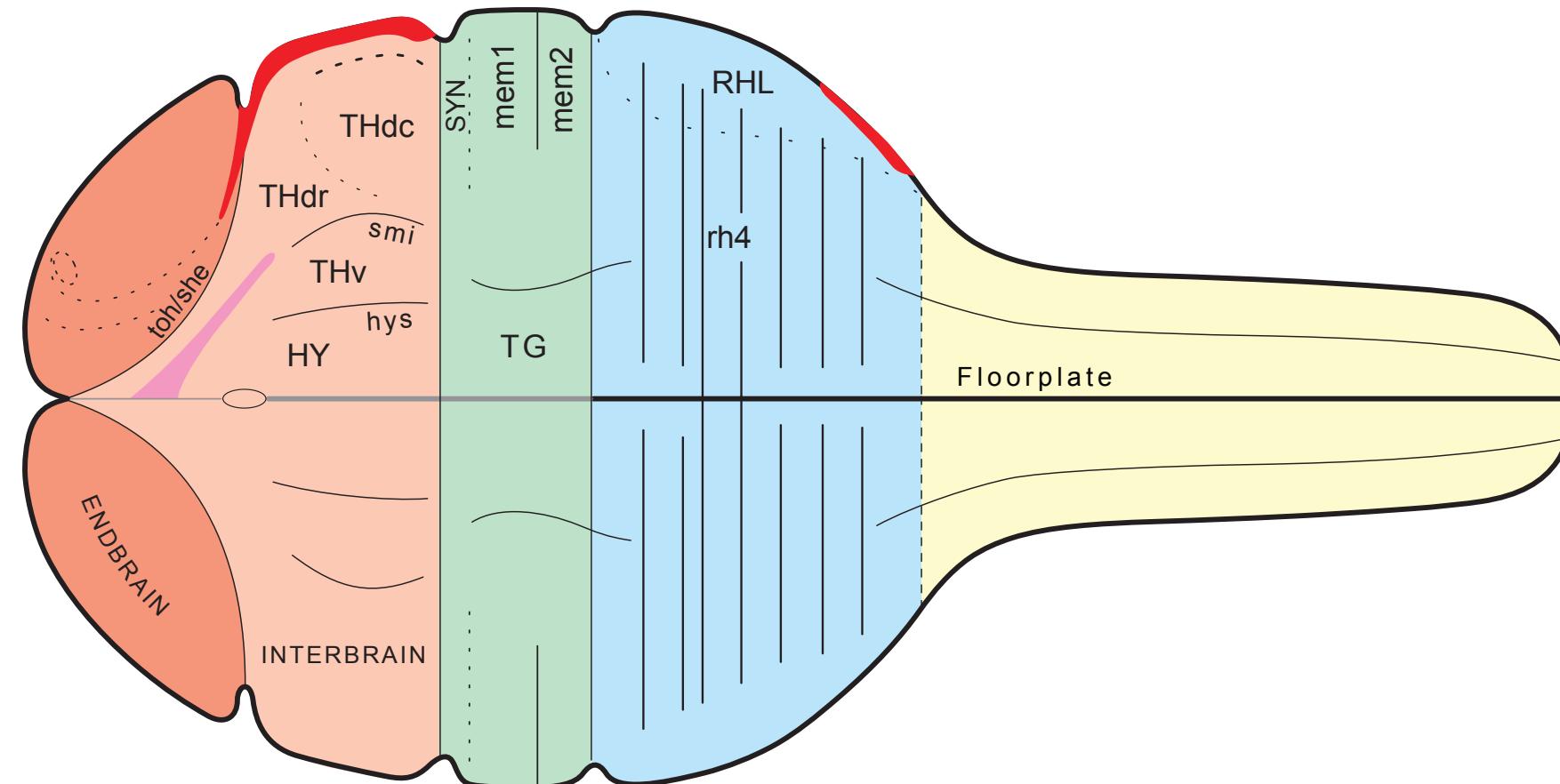
ACTUAL: e9 (late neural plate; 5 somites)

FATE: e11 (limiting sulcus)  
e12 (interbrain differentiation)



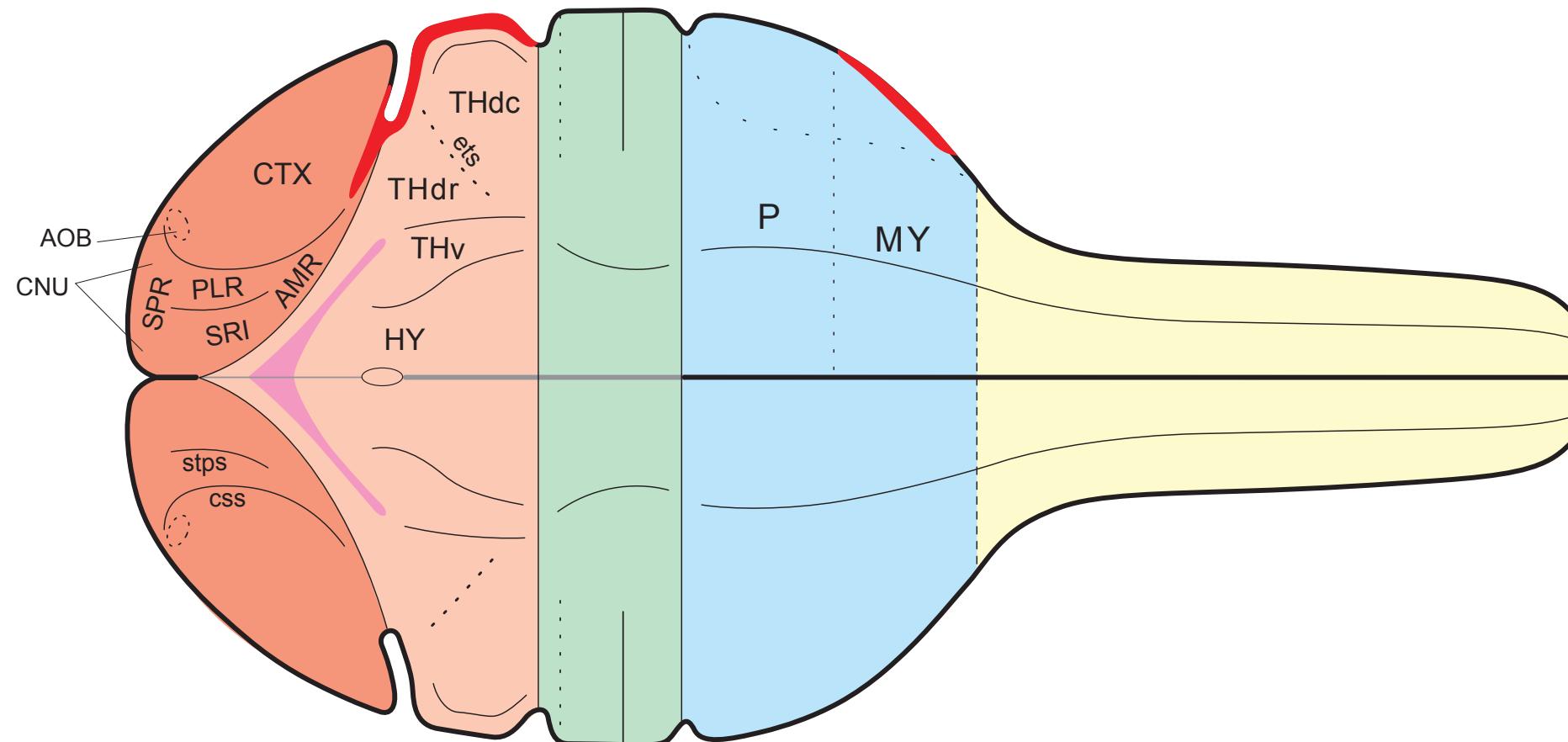
ACTUAL: e10 (primary brain vesicles,  
secondary rhombomeres, ~17 somites)

FATE: E12 (endbrain & thalamic differentiation)  
e15 (rhombic lip differentiation)



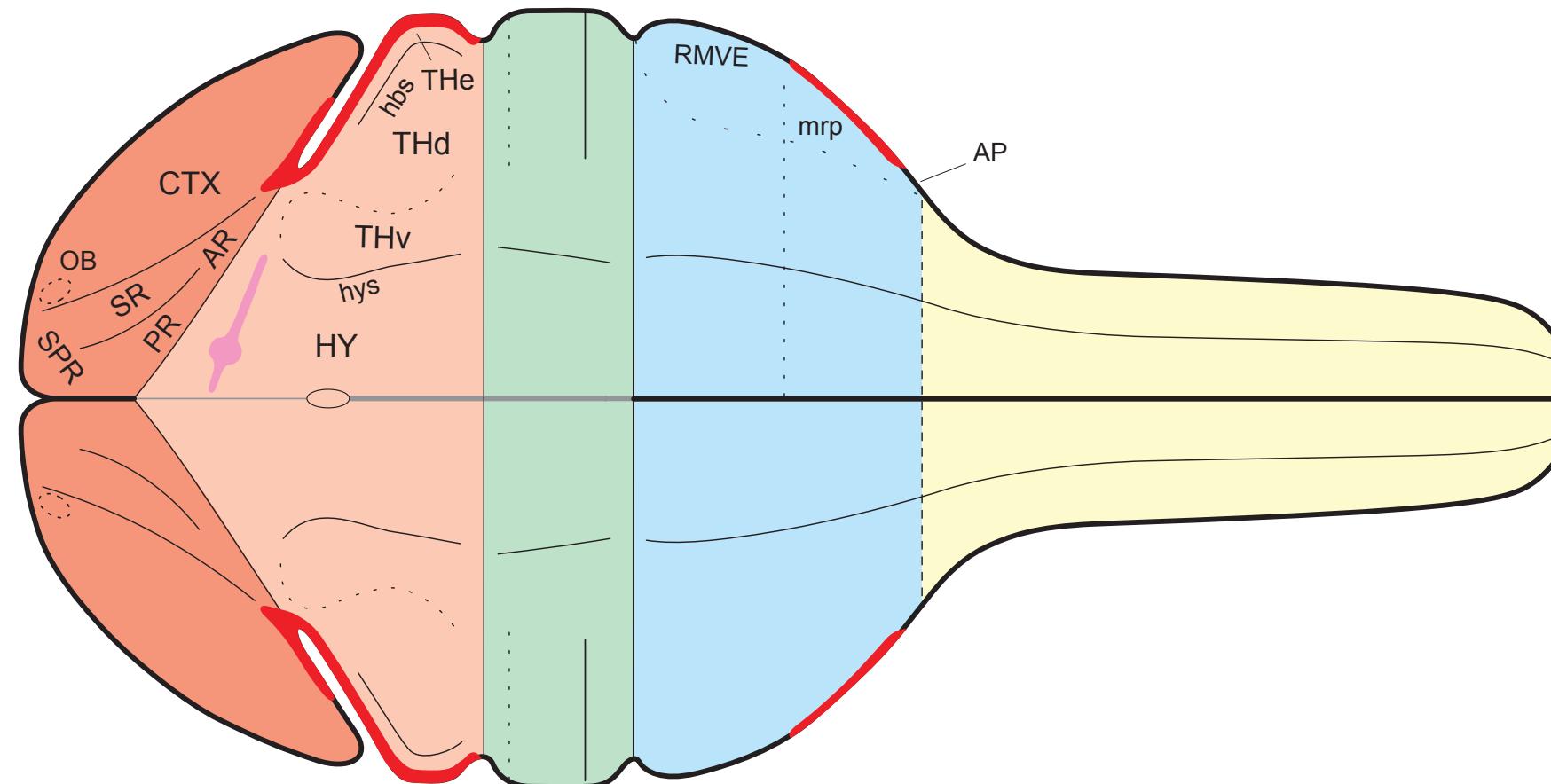
**ACTUAL:** e11 (limiting sulcus, early  
interbrain & midbrain differentiation)

**FATE:** e15 (pons & medulla differentiation,  
rhombic lip)



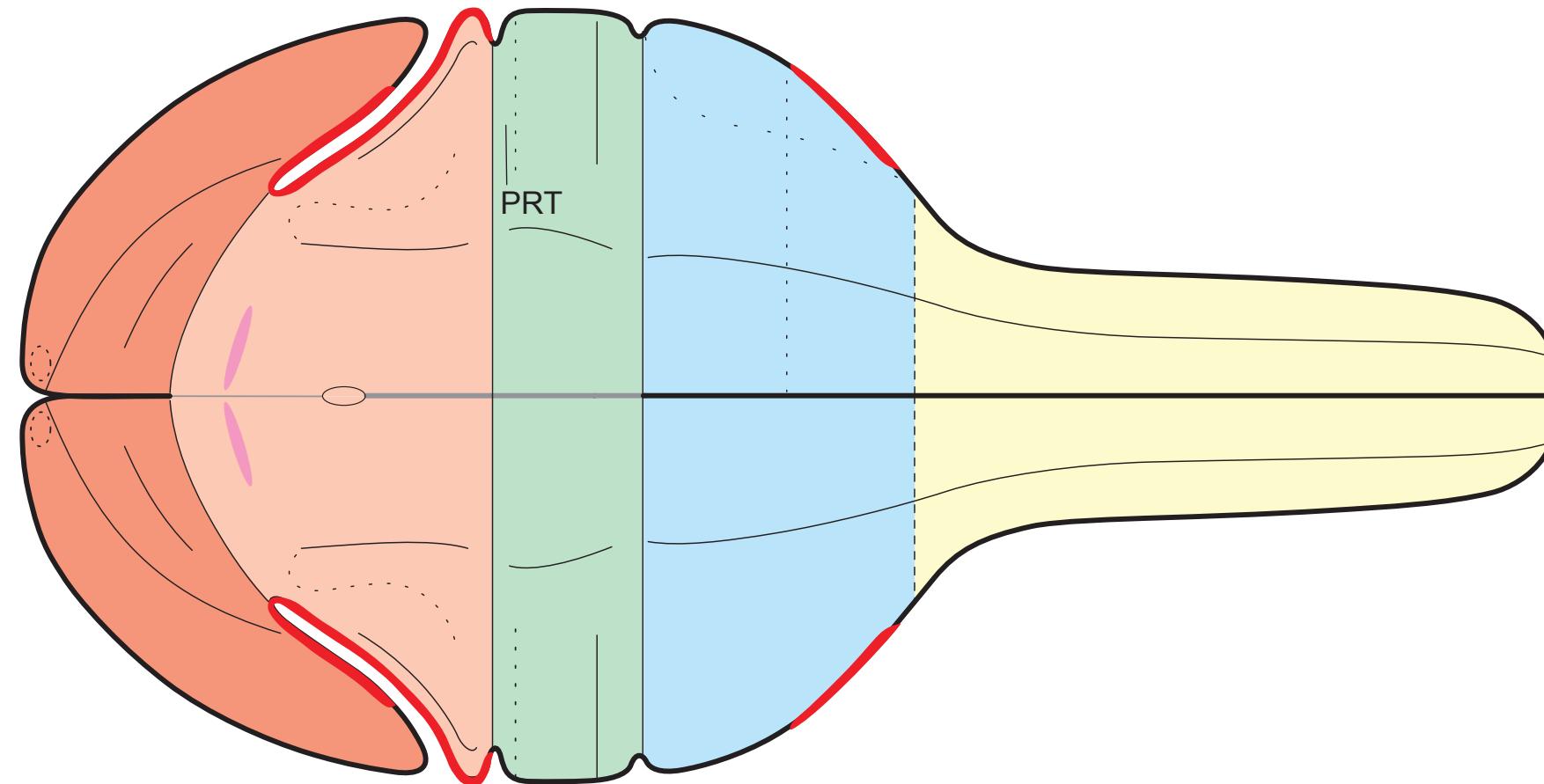
**ACTUAL:** e12 (endbrain & thalamic differentiation;  
rhombomeres disappear)

**FATE:** e15 (pons & medulla differentiation,  
rhombic lip)



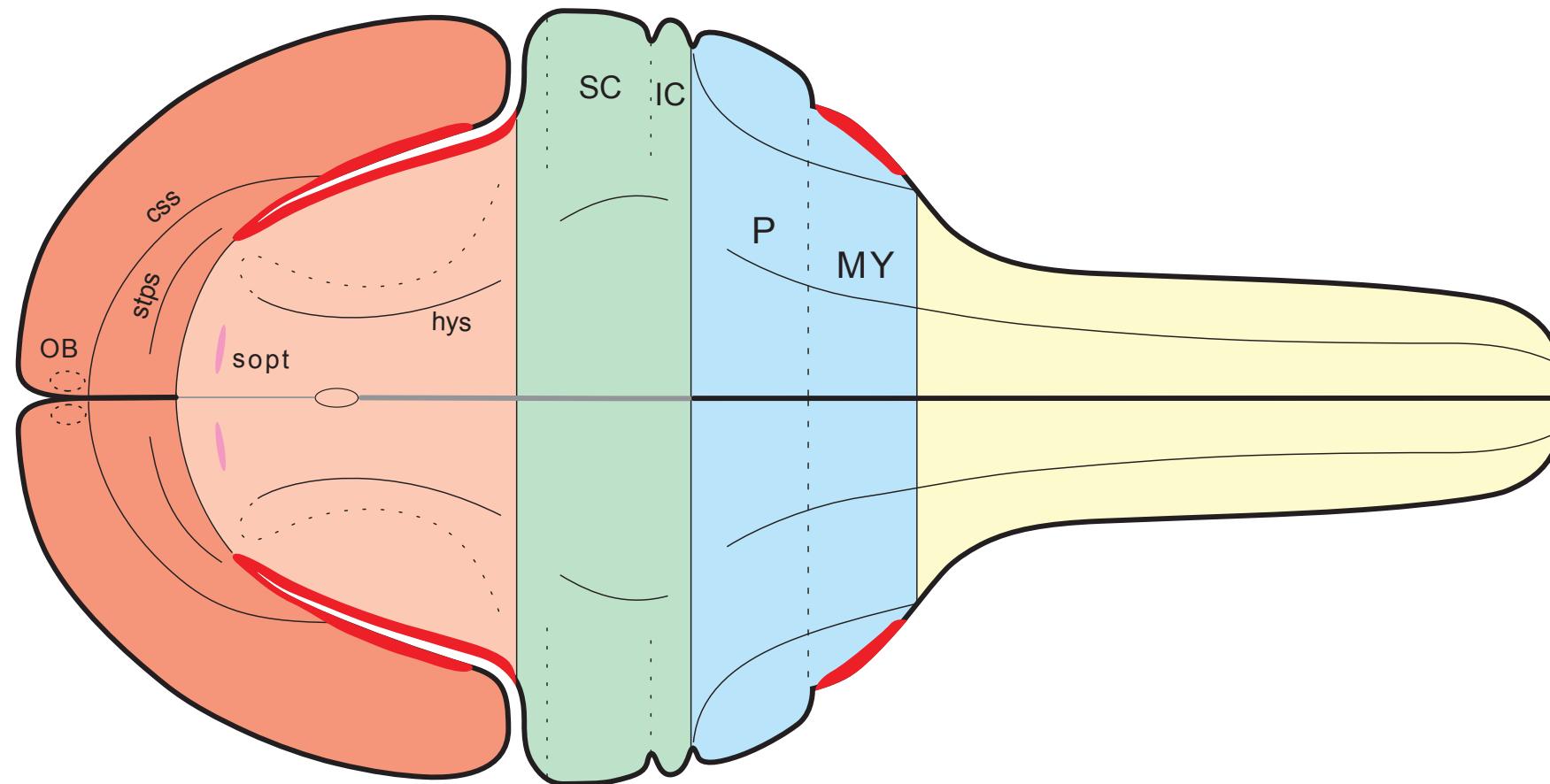
**ACTUAL:** e13 (choroid plexuses from endbrain,  
interbrain, & medulla roofplates)

**FATE:** e15 (pons & medulla differentiation,  
rhombic lip)



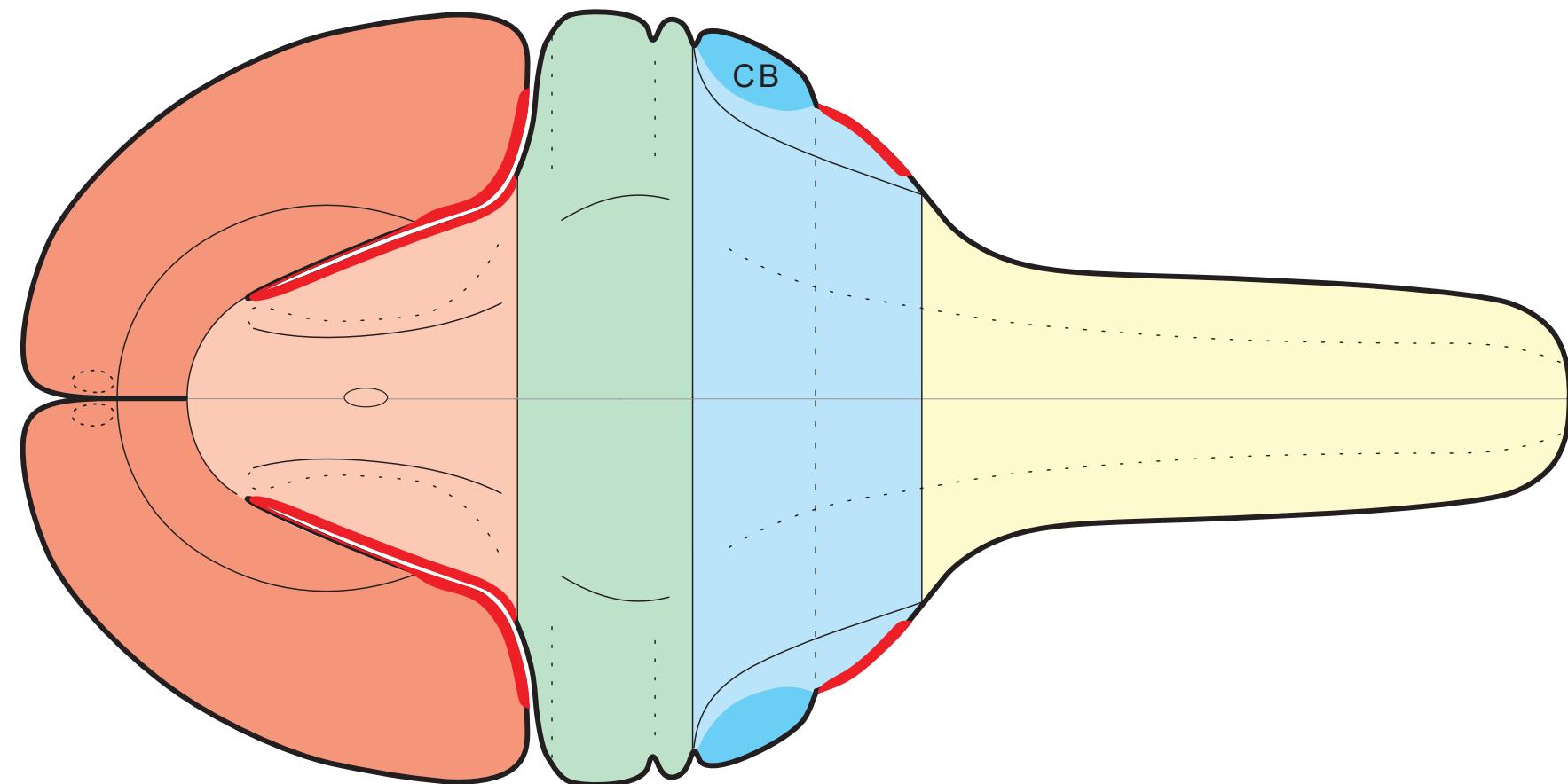
**ACTUAL:** e14 (rapid growth of endbrain)

**FATE:** rapid expansion of cerebral cortex



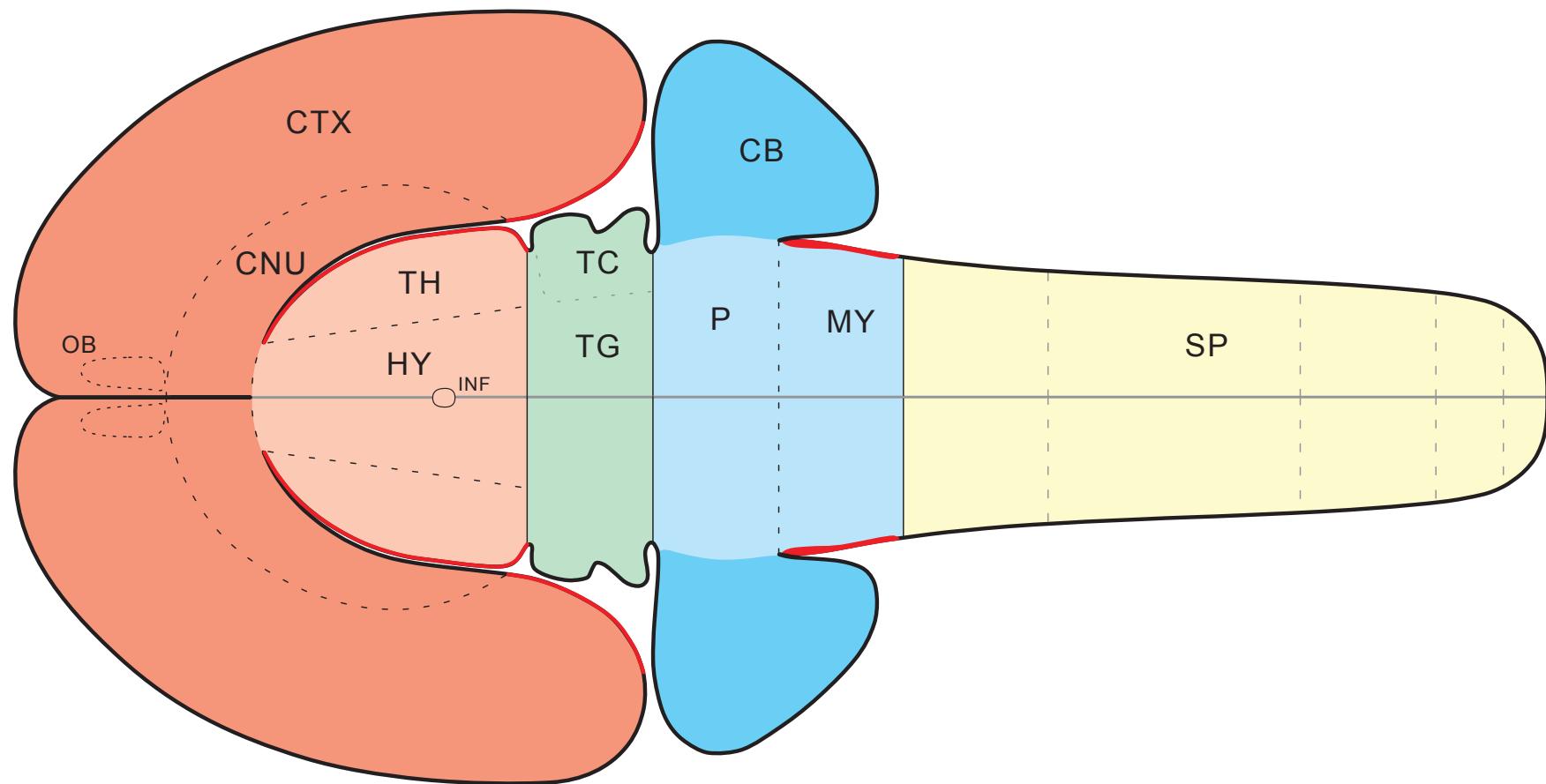
**ACTUAL:** e15 (pons & medulla differentiation,  
rhombic lip)

FATE: adult configuration

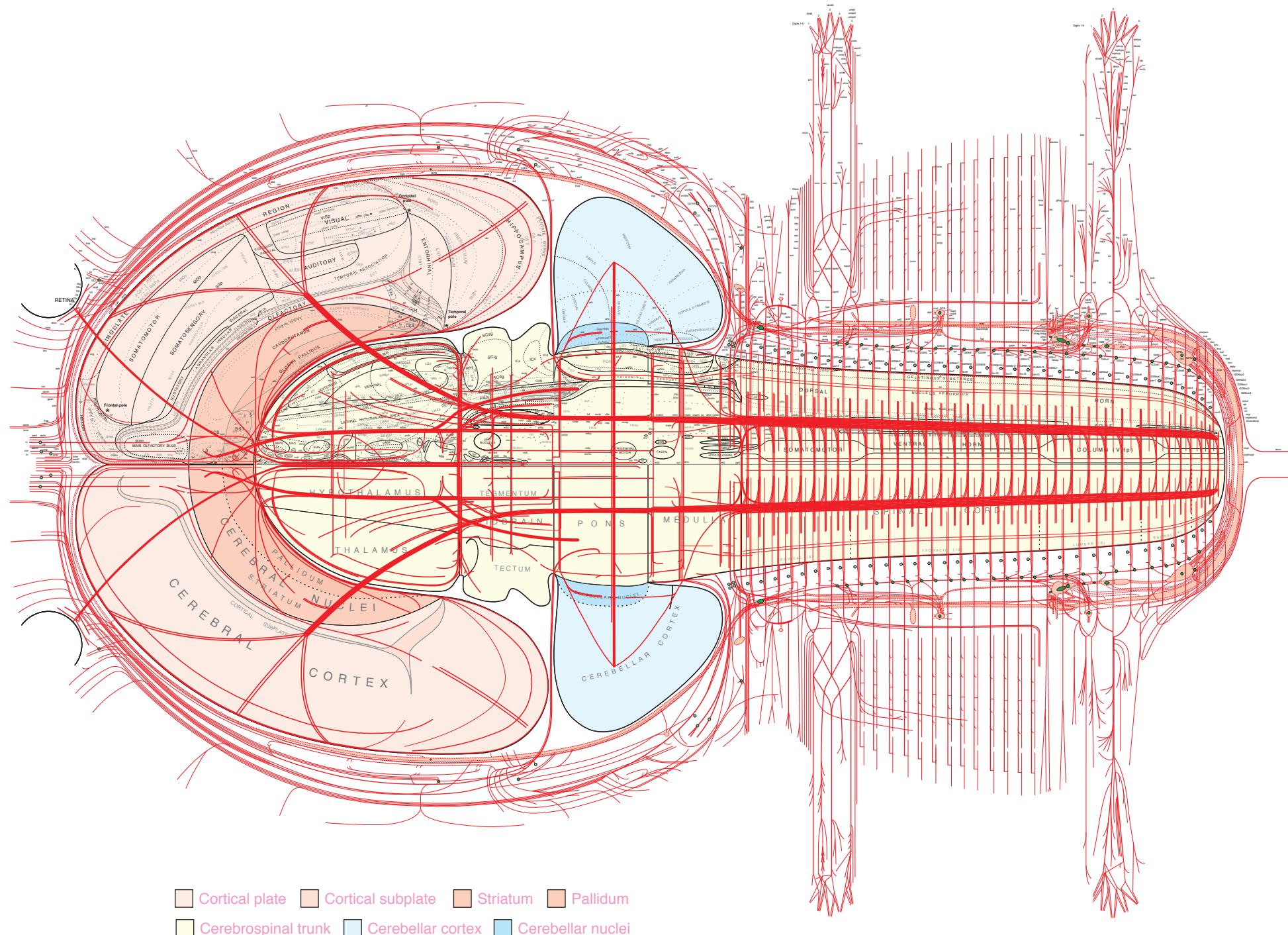


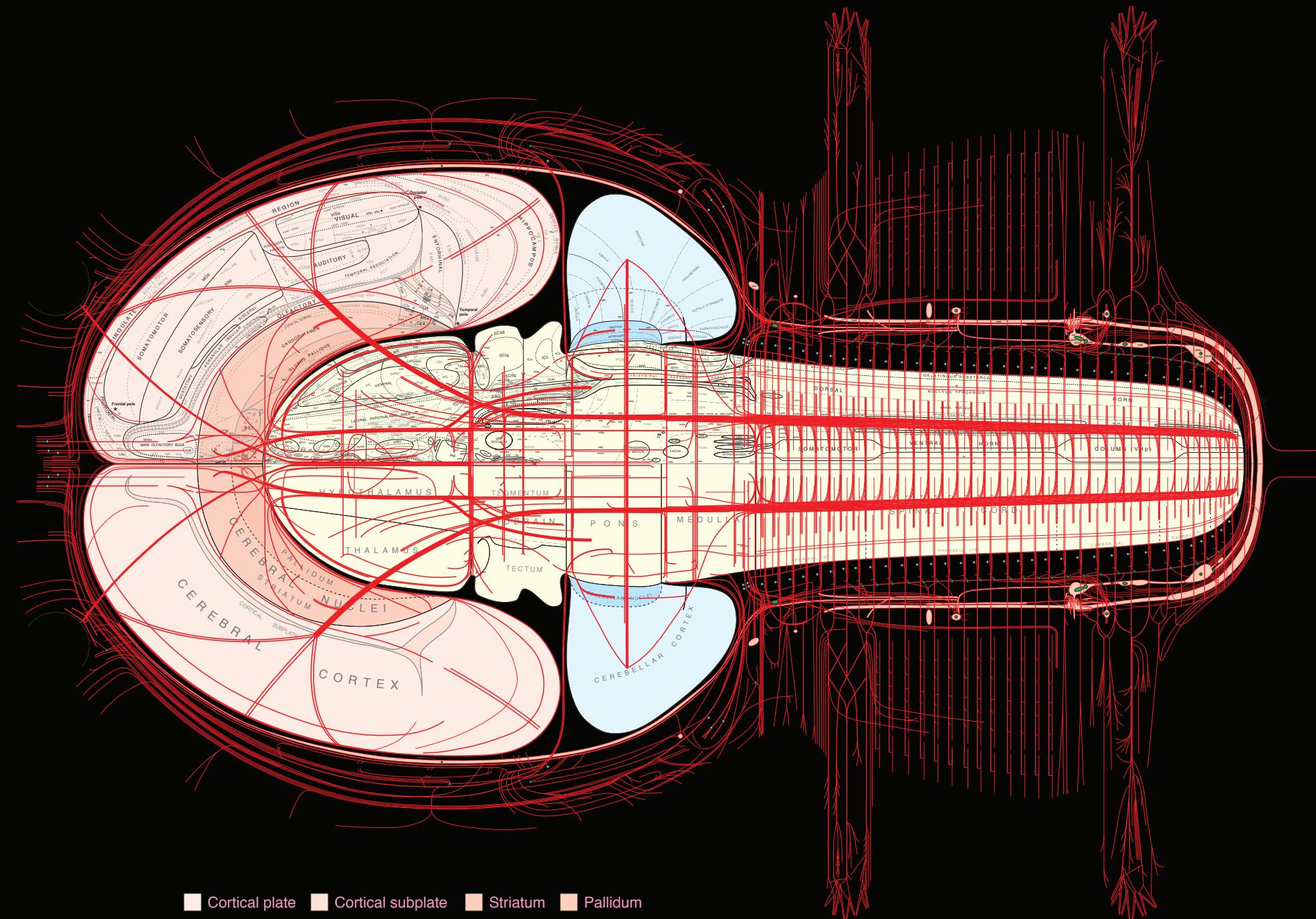
ACTUAL: e17 (cerebellum differentiation)

FATE: aging, disease, injury



**ACTUAL:** adult





Legend for the brain section diagram:

- Cortical plate
- Cortical subplate
- Striatum
- Pallidum
- Cerebrospinal trunk
- Cerebellar cortex
- Cerebellar nuclei